

LESNAYA, V.I., kand. tekhn. nauk.

Innovators in Moscow watch factories. Izobr. v SSSR 3 no. 3:22-23  
and 26-28 Mr '58. (MIRA 11:3)  
(Moscow--Clockmaking and watchmaking)

1.1100

31435

S/122/61/000/012/006/008  
D221/D303

AUTHOR: Lesnaya, V.I., Candidate of Technical Sciences

TITLE: The new method of chip removal during drilling of blind holes

PERIODICAL: Vestnik mashinostroyeniya, no. 12, 1961, 62 - 63

TEXT: In a new method proposed by Engineer A.Ye. Segal, chip removal in machining blind holes is realized by the drill itself. The tool is magnetized in its lowermost position by a coil placed over the drilled hole and picks up the chips during its return stroke. The current is switched off for demagnetizing the drill when it reaches the uppermost position. The switching takes place during the swivel of the table so as to prevent chips falling back into the hole. This procedure was investigated in order to check the possibility of residual magnetization which would not allow the chips to fall off from the drill; the residual magnetization of component might present obstacles to chip removal from the hole. The tests were carried out with 220 V ac current and various dis-

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D221/D303

The new method of chip removal ...

position of coils. The component was made of steel 30. The sizes of holes were 7 mm diameter, 8, 10 and 12 mm deep, as well as 4 mm diameter and 5, 6 and 8 mm deep. In the first experiment, the smaller coil was mounted directly on the work-piece with the drill passing through its hole. The magnetized tool picked up almost all the chips from the hole as well as some from the edges. All chips fell off during the ascent of the drill at a speed of 3 m/min. In the second test, the larger coil was placed over the drill and embraced the chuck which allowed short tools to be used. Some chips remained in the hole and a weaker magnetic action was noticed. After establishing the validity of the principle, optimum dimensions and electrical parameters of coils in relation to components (valve housings) were determined. The sizes of coils were calculated with regard to drills and design conditions, while the number of turns and diameter of wire were selected for ensuring adequate attraction of chips. The new coils were subject to tests when drilling stepped holes in forging of steels 45 and 30, without removing chips from the preceding operations. The new coils had  $D_0 = 100$  mm,  $H = 22$  mm,  $D_1 = 15$  and 19 mm, wire of 0.31 ПЭЛ(PEL), X

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The new method of chip removal ...

S/122/61/000/012/006/068  
D221/D303

and the number of turns was respectively 5500 and 4800. After each experiment the chips were shaken out on paper. The results proved that 220 V ac ensures total removal of chips, leaving only some metal dust, and they all fall off when the drill is demagnetized on coming out from the coil. The coil with the larger hole gave good results. No difference was noticed in machining these two kinds of steel. The supply voltage of 120 V ensured satisfactory results, and therefore optimum coil size was investigated, and a recommendation for  $D_o = 80$  mm,  $D_i = 19$  or 15 mm,  $H = 20$  mm, with wire of 0.38 mm was then made. The number of turns fill the coil. Finally, the coils were tested for heating on multiple switching with 10 sec. work and 50 sec. of interruption intervals. The thermal balance was achieved after 1 hour. Experiments revealed the expediency of this method for application in vertical drills. There is 1

Card 3/3

YEFIMOV, V.P. [deceased]; LESNAYA, V.I.; SHTUL'BERG, I.M.

High-efficiency machining of low-module gear wheels.  
Priborostroenie no.9:6-8 S '62. (MIRA 15:9)  
(Gear cutting)

LESNAYA, V.I.

Improving machining conditions of plastic instrument bodies.  
Priborostroenie no.2:17.1, F '61. (MIRA 17:3)

LESNAYA, V.I.; DMITRIEV, A.N.

Advanced technology for the manufacture of aircraft gears.  
Friborgostroenie no. 7:16-1 Ju 1941. (MIL 17:11)

LESHENKO, V.K.

Amazing snow figures. Priroda 49 no. 12:52 D '60.  
(MIRA 13:12)

1. Komsomol'skiy-na-Amure pedagogicheskiy institut.  
(Komsomol'sk-on-Amur-- Snow)

LESNENKO, V.K., kand. geograf. nauk

Landslide ravines. Priroda 54 no.3:127 Mr '65.

(MIRA 18:4)

1. Pskovskiy gosudarstvennyy pedagogicheskiy institut.

*Lesnevich, Fysyak*

BULGARIA / Chemical Technology. Synthetic Fibers

H-52

Abs Jour : Ref Zhur - Khim., No 12, 1958, No 41772

Author : Lesnevich, Fysyak

Inst : Not given

Title : Dehydration of Glauber Salt in the Manufacture of Viscose  
Fiber by the Aid of a Plunger Burner.

Orig Pub : Przem. chem., 1957, 13, No 11, 632-642

Abstract : No abstract.

Card 1/1

2000-07-12 10:00 AM

2001. P. J. Prendergast, Ex-Executive Director of Central Intelligence, Retirement.  
2002. R. L. Madole, Ex-Director of Defense Intelligence Agency, Retirement.  
2003. V. J. Polk, Ex-Director of Defense Intelligence Agency, Retirement.  
2004. K. J. Deasy, Ex-Director of Defense Intelligence Agency, Retirement.  
2005. K. M. Johnson, Ex-Director of Defense Intelligence Agency, Retirement.  
2006. S. M. Huff, Ex-Director of Defense Intelligence Agency, Retirement.  
2007. S. M. Huff, Ex-Director of Defense Intelligence Agency, Retirement.  
2008. G. J. Kavner, Ex-Director of Defense Intelligence Agency, Retirement.  
2009. S. M. Huff, Ex-Director of Defense Intelligence Agency, Retirement.  
2010. A. S. Chaitkin, Ex-Director of Defense Intelligence Agency, Retirement.  
2011. V. J. Kavner, Ex-Director of Defense Intelligence Agency, Retirement.  
2012. P. J. Prendergast, Ex-Director of Defense Intelligence Agency, Retirement.  
2013. R. L. Madole, Ex-Director of Defense Intelligence Agency, Retirement.  
2014. V. J. Polk, Ex-Director of Defense Intelligence Agency, Retirement.  
2015. K. J. Deasy, Ex-Director of Defense Intelligence Agency, Retirement.  
2016. K. M. Johnson, Ex-Director of Defense Intelligence Agency, Retirement.  
2017. S. M. Huff, Ex-Director of Defense Intelligence Agency, Retirement.  
2018. G. J. Kavner, Ex-Director of Defense Intelligence Agency, Retirement.  
2019. S. M. Huff, Ex-Director of Defense Intelligence Agency, Retirement.  
2020. A. S. Chaitkin, Ex-Director of Defense Intelligence Agency, Retirement.

24.4500

S/064/62/000/002/005/008  
B101/B144

## AUTHORS:

Krichevskiy, I. R., Khazanova, N. Ye., Lesnevskaya, L. S.,  
Polyakova, Z. A.

TITLE: Diffusion in gases at high pressures

PERIODICAL: Khimicheskaya promyshlennost', no. 2, 1962, 29-35

TEXT: The diffusion in the  $N_2$  -  $CO_2$  system under pressure was measured. The method consists in filling capillaries (8 mm diameter, 70 mm length) with purified  $CO_2$ , while  $N_2$  is in the chamber surrounding the capillaries. The gas mixture contained in the capillaries after diffusion is analyzed. To prevent convection, the capillaries are filled with silver wire netting, width of mesh 0.04 mm<sup>2</sup>. The diffusion coefficient calculated on the basis of Fick's equation was corrected, allowing for the apparatus constant 1.74, caused by filling with the net. The investigation was conducted at 25, 28.15 and 31.5°C and 6-74 atm. At 31.5°C,  $D_{N_2} \cdot 10^3$  cm<sup>2</sup>/sec amounted to:

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X

Diffusion in gases at high ...

S/064/62/000/002/005/008  
B101/B144

Pressure atm	molar part of N <sub>2</sub>		
	0.25	0.30	0.45
24.0	4.97	5.03	6.10
47.0	2.03	2.43	2.83
58.6	1.65	2.00	2.37
70.0	0.90	1.05	1.20
74.0	0.33	0.43	0.53

A calculation of the diffusion coefficient on the basis of the Enskog-Chapman theory and its extension to gases by W. Jost, using the equation of state by I. R. Krichevskiy and Ya. S. Kazarnovskiy (ZhFKh, 13, 378 (1939)) and the constant by V. P. Markov (ZhFKh, 15, 410 (1941)) produced, up to 50 atm, a maximum deviation of 12%

between experiment and calculation. For higher pressures, there is a significant difference between experiment and theory. The absence of an exact diffusion theory caused the authors to start a series investigation of the diffusion in gases at high pressures. There are 6 figures, 2 tables, and 31 references: 7 Soviet and 24 non-Soviet. The four most recent references to English-language publications read as follows: Chan-Hue Chon, I. I. Martin, Ind. Eng. Chem., 49, 758 (1957); L. R. Mifflon, C. O. Bennett, J. Chem. Phys., 22, 975 (1950); H. H. Reamer, B. H. Sage, Transport Properties of Gases, Proc. Gas. Dynamics Symposium, 2-nd, Evanston, 1957, 62 (pub. 1958); Iigo Osugi, H. Hiraoka, D. Shinoda, Rev. Phys. Chem., 28, no. 1, 36 (1958). Card 2/2 X

KRICHEVSKIY, I.R.; KHAZANOVA, N.Ye.; LESNEVSKAYA, L.S.

Fick's diffusion equation. Inzh.-fiz. zhur. 5 no.2:101-103 F  
'62. (MIRA 15:1)

1. Institut azotnoy promyshlennosti i produktov organicheskogo  
sinteza, Moskva.  
(Diffusion)

KRICHEVSKIY, I.R.; KHAZANOVA, N.Ye.; LESNEVSKAYA, L.S.; POLYAKOVA, Z.A.

Diffusion in gases at high pressures. Khim.prom. no.2:105-111  
F '62. (MIRA 15:2)  
(Diffusion)

S/862/62/002/000/016/029  
A059/A126

AUTHORS: Krichevskij, I.R., Khazanova, N.Ye., Lesnevskaya, L.S.

TITLE: Diffusion in gases at high pressures

SOURCE: Teplo- i massoperenos. t. 2: Teplo- i massoperenos pri fazovykh i khimicheskikh prevrashcheniyakh. Ed. by A.V. Lykov and B.M. Smol'skiy. Minsk, Izd-vo AN BSSR, 1962, 136 - 141

TEXT: A new method of studying gaseous diffusion at high pressures has been developed which is based on the capillary method. The diffusion cell consisting of a small cylinder closely packed with a silver net and having top and bottom seals which is filled with the heavier gas (or gas mixture) is used. Four cells in a great chamber contain the lighter gas, which is sufficiently large to secure constant composition of the gas in it in the course of diffusion. The device is shown schematically in Figure 1. The composition of the gas in the cell is changed during diffusion from the top to the bottom. After the conclusion of the experiment, the diffusion cell is disconnected and the quantity of gas in it and its average composition determined. The diffusion of the nitrogen-

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A059/A126

Diffusion in gases at high pressures

-carbon dioxide system was investigated at pressures up to 110 atm and at temperatures between 20 and 31.5°C. The coefficient of diffusion was determined with an error of 1.5 - 3%. Both the diffusion of pure nitrogen into pure CO<sub>2</sub> and from one mixture into the other were studied, in the former case at pressures up to 60 - 70 atm and at 25, 28, and 31.5°C. The coefficient of diffusion of nitrogen is a function of composition and pressure, and is practically independent of temperature. The dependence of the coefficient of diffusion on the composition is considerable, and increases with increasing pressure. At relatively small densities, the coefficient of diffusion can be calculated with sufficient accuracy from the theory of inhomogeneous gases according to Enskog and Chapman developed for molecular models with spherical symmetry, i.e., in a second approximation,

$$[D_{12}]_{II} = [D_{12}]_I / X_{12},$$

where, for models with elastic spheres,

$$X_{12} = 1 + \frac{\pi}{12} n_1 \sigma_1^3 \left( 3 - \frac{3\sigma_1}{\sigma_{12}} \right) + \frac{\pi}{12} n_2 \sigma_2^3 \left( 3 - \frac{3\sigma_2}{\sigma_{12}} \right)$$

( $\sigma$  is the collision diameter,  $n_1$  the number of molecules in 1 cm<sup>3</sup>, and  $m_1$  the

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Diffusion in gases at high pressures

S/262/62/002/000/016/029  
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molecular weight). Since the function  $X$ , at given pressure and temperature, is a function of the composition, this equation can be used to allow for the dependence of the diffusion coefficient both on composition and on pressure and temperature. The difference between data calculated from this equation and experimental results obtained increases with increasing pressure. It has been further established that, at 20°C,  $p = 97.5$  atm, and a molar fraction of 0.14 of nitrogen, not even a formal application of Fick's law is possible. In addition, molecular diffusion is shown to be inevitably accompanied by convective mixing of the whole mass of the gas and, finally, the sharp retardation of diffusion near the critical point of liquid-vapor equilibrium is studied, and the reasons of this behavior are discussed. There are 6 figures.

ASSOCIATION: Gosudarstvennyy institut azotnoy promyshlennosti, g. Moskva (State Institute of the Nitrogen Industry, City of Moscow)

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Diffusion in gases at high pressures

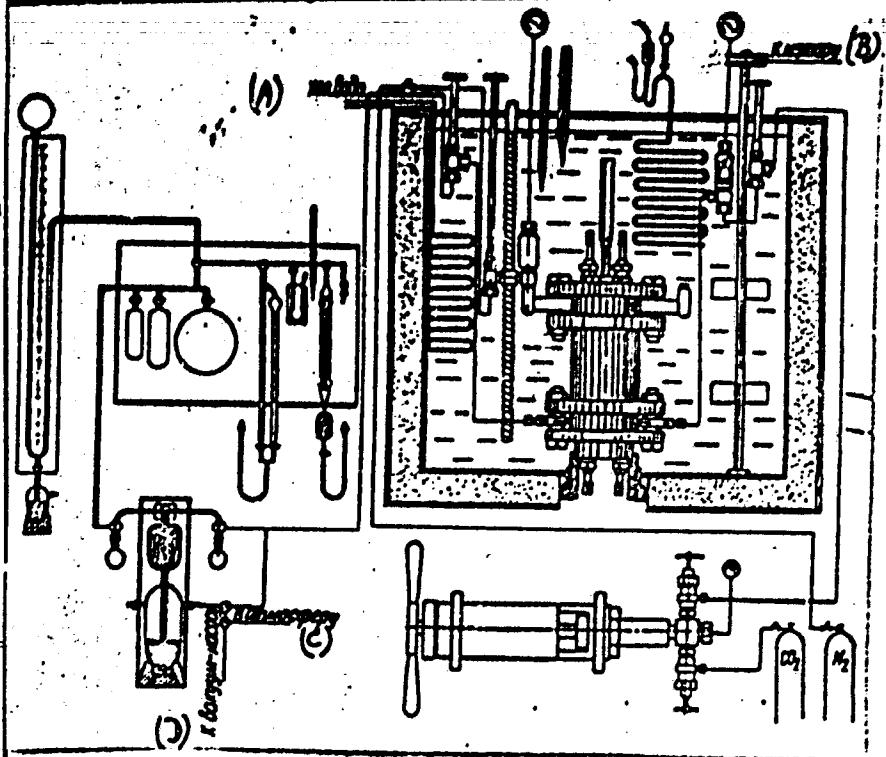
S/862/62/002/000/016/029  
A059/A126

Figure 1: Setup for  
the study of gaseous  
diffusion. (A) cool-  
ing water; (B) to  
the motor; (C) to  
the atmosphere; (D)  
vacuum pump.

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Diffusion in gases at high pressures

S/862/62/002/000/016/029  
A/059/A126



Card 5/5

KRICHEVSKIY, I.R.; KHAZANOVA, N.Ye.; LESNEVSKAYA, L.S.; SANDALOVA, L.Yu.

Equilibrium liquid - gas at high pressures in the nitrogen -  
carbon dioxide system. Khim.prom. no.3:169-171 Mr '62.  
(MIRA 15:4)  
(Nitrogen) (Carbon dioxide) (Phase rule and equilibrium)

TSIKLIS, D.S.; LESNEVSKAYA, L.S.

Heating of solid bodies in an adiabatically compressed gas.  
Fiz tver. tela 5 no.10:2978-2980 O '63. (MIRA 16:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut  
azotnoy promyshlennosti i produktov organicheskogo sinteza, Moskva.

KHAZANOVA, N.Ye.; LFSNEVSKAYA, L.S.

Volumetric relationship in the system nitrogen- carbon dioxide.  
Khim. prom. 41 no.5:344-347 My '65. (MIRA 18:6)

KOSCHUTSKIY, S.K.; LASHINSKIY, P.M.

Counting device. Nauka - prelaz. no.1:91-9. '63.  
1:3.

LESNEVSKIY, S., polkovnik

Reliable shield of peace. Voen. Znar. 41 no.5:16 My '65. (MIRA 13:5)

LESNEVSKIY, Sigizmund Apolinar'yevich. polkovnik; SOKOLOV, V.D.,  
podpolkovnik, red.; ZUDINA, M.P., tekhn. red.

[The Polish Army] Voisko Pol'skoe. Moskva, Voenizdat,  
1963. 103 p. (MIRA 16:11)  
(Poland--Army)

LESNIAK, A.

Distr: 4E2c

✓ Recovery of metals. Centralny Zarząd Przemysłu Metali Nieżelaznych (by A. Lesniak, K. Kurski, W. Kwiecień, and W. Simeja). [Pol.] 40, 626, Jan. 27, 1958. A by-product of the production of bearing alloys contg. oxides of Cu, Sn, Sb, Pb, Zn, Cd, and Ni can be converted on redn. to a product contg. Cu 20-40, Sn 20-40, Sb 10-30, Pb 2-20%, and small amts. of Zn, Cd, and Ni. The product is ground and oxidized in a revolving furnace at 600-800° and extd. with an  $(\text{NH}_4)_2\text{CO}_3$  soln. contg.  $\text{NH}_4\text{OH}$ . Cu, Zn, and Ni-amino compd. are dissolved, the ext. is heated, and the  $\text{CuO}$  ppt. is sepd. Nonsol. oxides are reduced with H or  $\text{CO}$ , and a Sn-Sb-Pb alloy is obtained. K. Bojanowska

47K

6  
1-mje (jed)

LESNIAK, Adam, mpr., inz.

Research workers decide... Rudy i metale 7 nc.3:90-91 '62.

1. Generalny dyrektor Zjednoczenia Gorniczo-Hutniczego Metali  
Niezetalaznych.

LESNIAK, Adam, mgr inż.

Miner's Day. Rudy i metale 7 no.12:538 D '62.

1. Generalny Dyrektor Zjednoczenia Górnictwa-Hutniczego Metali  
Niezłaznych, Katowice.

BERNHARDT, Maciej, dr. inż.; LESNIAK, Antoni, mgr inż.

Possibilities of obtaining the optimum characteristic of  
carburetor. Techn motor 13 no.1:8-13 Ja '63.

LESNIAK, Antoni, mgr inz.

Influence of the type of carburetor and its regulation  
on fuel consumption. Techn motor 12 no. 78217-225  
Jl '62.

BERNHARDT, Maciej, dr inz.; LESNIAK, Antoni, mgr inz.

Method of determining the mechanical efficiency of combustion engines. Techn motor 12 no. 9: 306-314 S '62.

GARGASZ, Adam, mgr inz.; LESNIAK, Antoni, mgr inz.

"Technical automobile guidebook" by [prof. dr] Kazimierz Studzinski, Marian Wojdat, [mgr inz.] Karol Pionnier, [mgr inz.] Zdzislaw Debowski, [mgr inz.] Kazimierz Plucinski. Reviewed by Adam Gargasz, Antoni Lesniak. Techn motor 13 no. 2:68-72 F '63.

WILKZUCHOWSKI, M.; GOGOLEWSKI, S.; LESNIAK, B.; WYZGOLINSKA, J.; HOJAS, I.

Pancreas in immediate regulation of blood volume during hyperosmolality. Bul Ac Pol biol 10 no.12:559-563 '62.

LESNIAK, Boleslaw

Symposium on Electroacoustic Transducers

POL/5981

- |     |  |     |
|-----|--|-----|
| 36. | Underwater piezoelectric electroacoustic transducer with a flat frequency response from 100 Hz to 100 kHz. Zygmunt Nagielo | 353 |
| 37. | Splitting of ultrasonic pulse in magnetostrictive transducers fed by overvoltage systems. Jerzy K. Skrzela                 | 361 |
| 38. | Calibration exciter for checking accelerometers. Per V. Brueel   | 375 |
| 39. | Calibrator for phonograph pickups. Zygmunt Komornicki  | 379 |
| 40. | Non-reflecting piezoelectric probe and equipment for measuring ultrasonic field intensities in fluids. J. Karpinski and    | 385 |
| 41. | Investigation of the bases of ultrasonic generation in a flow-type equipment. Boleslaw Lesniak                             | 393 |
| 42. | Ultrasonic hydrogenerators. C. Wachtl, A. Sigalin, and E. Karczmarezyk   | 401 |
| 43. | Particular case of mechanoelectric transducer applied to steel construction testing. Stefan Ziomek and Jerzy Kasinski      | 405 |

Card 7/8  
Source: Proceedings of the Symposium on Electroacoustic Transducers (held in Krynica, 17-26 September, 1958. Warsaw, Panstwowe Wydawnictwo Naukowe, 1961. 442)

SAKWA, Wacław; LESNIAK, Chryzant

Sintered carbides as foundry material. Przegl. Mlewy 14 no. 12:  
330-333 D '64.

LES NIAK, C.

*The Recovery of the Components of Sintered Carbides Scrap.*  
B. Zacharszewski and C. Lesniak. (Hawnik (Katowice), 1953,  
50, 2, 83-88). [In POLISH]. A dry method of recovering  
sintered carbides from scrap is described. It is claimed that  
not only can tungsten carbide, titanium carbide and cobalt be  
recovered, but also carbides of thalium, vanadium, niobium,  
and molybdenum. The method entails oxidation of the  
scrap at 900-900° C. in air, crushing and screening of oxidized  
material, reduction in hydrogen at 700-1000° C., carburization  
of the reduced material by mixing with coal and heating in

hydrogen at 1450-2000° C. (depending on chemical composition). The chemical basis of the process is outlined. Sintered carbides produced from regenerated powder had properties equal to those from fresh powder, providing at least 2% fresh cobalt was added and the mixture ground in water for the usual period.—v. o.

LINDNER, C.

Journal of Applied Chemistry  
Vol. 4 Feb. 1954  
Industrial Inorganic Chemistry

(2) ✓ Recovery of the components of sintered carbide scrap. H  
✓ Zacharszewski and C. Laniak (Huńik [Katowice], 1953, 20, 83-93;  
J. Iron Steel Inst., 1953, 176, 340).—A dry method of recovering sin-  
tered carbides from scrap entails oxidation of the scrap at 800–900°  
in air, crushing and screening of oxidised material, reduction in H<sub>2</sub> at  
700–1000°, and carburisation of the reduced material by mixing  
with soot and heating in H<sub>2</sub> at 1450–2000° (depending on the  
composition). The chemical basis of the process is outlined. Sintered  
carbides produced from regenerated powders had properties equal  
to those from fresh powder, if < 2% of fresh Co was added and the  
mixture ground in water for the usual period. R. B. CLARK

L 23902-65 EWT(1)/EWT(m)/T/EWP(t)/EWP(b) JD

ACCESSION NR: AP4047683

Z/0032/64/014/010/0772/0776

AUTHOR: Toman, L. (Engineer); Lesniak, E.

TITLE: Metallographic testing by making replicas of an etched surface

SOURCE: Strojirenstvi, v. 14, no. 10, 1964, 772-776, 781

TOPIC TAGS: metallography, steel microstructure, steel casting, rolling mill, surface replica, steel etching, nitrocellulose replica

ABSTRACT: Details are furnished on the method of burnishing any spot on a metal surface by a simple hand-applied cathode, etching it and then making a transparent nitrocellulose replica of the metal microstructure. This method, originally published by Jacquet and Effenterre in France (Rev. Metallurgie, 1957, #2, pp. 107-123), is applied regularly to test castings, heavy forgings and rolled steel goods at the authors' institute in Ostrava, Czechoslovakia. The use of other replica materials such as collodion, celluloid and acetylcellulose is discussed, and the techniques of application and removal are outlined. The authors mention a testing of rolling mill rolls, high-alloy steel forgings, steam turbine casings, welded boilers and segments of large tanks before they are assembled. In urgent cases, the method can be completed in one or two hours, and can be repeated several times

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L 23902-65

ACCESSION NR: AP4047683

during the heat treatment of a heavy forging or while it is being machined. Orig.  
art. has: 1 drawing and 11 photomicrographs.

ASSOCIATION: Vyskumnny ustav metalurgicky VZKG, Ostrava (Metallurgical Research  
Institute VZKG)

SUMMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF Sov: 009

OTHER: 000

Card 2/2

TOMAN, L., inz., LESNIAK, E.

Metallographic testing of metallic materials on replicas.  
Strojirenske 14 no.10; 772-776, 781 O '64.

I. Research Institute of Metallurgy. Vitskovicke zelezarny  
Klementa Gottwalda National Enterprise, Ostrava.

WIERZUCHOWSKI, M.; LESNIAK, H.; GOGOLEWSKI, S.; WOJAS, Z.; SZYCHOWSKI, W.  
WYCZOLKOWSKA, J.

Early and late edema of pancreas during glucose hyperosmolality.  
Bul Ac Pol biol 11 no.2:99-103 '63.

1. Institute of Physiology, Lodz, Polish Academy of Sciences.

LESNIAK, Jan

"Methods of solving equations with one unknown in the realization  
of the school program" by A.Musialowicz. Reviewed by Jan Lesniak.  
Rocznik matematyczny 6 no.1:107-108 '62.

LESNIAK, Jan

"Supplements for elementary mathematics. I-IV" by A.J.Banarski.  
Reviewed by Jan Lesniak. Rocznik matematyczny 6 no.1:109-110 '62.

LESNIAK, Jan

"Outlines of didactic mathematics" by S.Neapolitanski. Reviewed  
by Jan Lesniak. Rocznik matematyczny 6 no.1:108-109 '62.

LESNIAK, Jadwiga

(3)

Chemical Abst.  
Vol. 48 No. 8  
Apr. 25, 1954  
Analytical Chemistry

Direct determination of oxygen in bituminous coal.  
Tadeusz Wnukowski and Jadwiga Lesniak. *Prace Glikanego  
Inst. Gornictwa, Komis. No. 132*, 19pp. (1952) (English  
summary).—A modified Unterzucker's method, as re-  
ported by Alusic, et al. (*C.A.* 41, 4107e), for direct detn. of  
O in org. compds. was adapted to bituminous coal. An  
enlarged app. for larger samples and a metallic Ag absorber  
for the removal of H<sub>2</sub>S were used. The results obtained by  
direct detn. are closer to the actual O content than results  
obtained by calen. 33 references. P. J. Hendel

Determination of small quantities of nitrogen in gases.  
A. I. Romanushkin, S. I. Kiperman, and M. I. Temkin  
(*Vysok. Chem. (USSR)*, *Anal. Chem. (USSR)*  
7, 251-2 (1952) (Engl. translation).—See *C.A.* 47, 937d.  
H. L. H.

Lęśniak, J.

Types of Polish coals from the modern viewpoint on coal  
structure. B. Roga, L. Wnęckowska, and J. Lęśniak.  
*Prace Głównego Inst. Górnictwa, Ser. B, Komisja No. 152,*  
10 pp.(1954)(English summary).—Proximate and ultimate  
analyses of 6 peats, 4 brown, and 47 bituminous coals are  
given. True d. (Franklin method, C.A. 42, 7003i) and  
structural analysis (van Krevelen method, C.A. 47, 9501f)  
are included.  
R. S. Lubomirski

LESNIAK, J.

Fuels

(3)

Fuel Abstracts  
Vol. XV, No.2  
Feb. 1954  
Analysis, Testing,  
Instruments.

1792. DIRECT DETERMINATION OF OXYGEN IN COAL. Wnukowski, L. and  
Lesniak, J. (Katowice: Prace Clev. Inst. Gorn. (Centr. chief Inst. Min.),  
1952, Ser. B, Komunik. 132, 15pp.). Unterhauser's method was adapted for  
this purpose, using enlarged apparatus and a metallic silver absorber for  
removal of hydrogen sulphide. Results are shown to be more accurate than  
those obtained by various methods of calculation. (L).

POLAND / Chemical Technology, Chemical Products and H  
Their Application, Part 3. - Treatment of  
Solid Combustible Minerals.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 62170.

Author : Lidia Wnekowska, Jadwiga Lesniak.

Inst : Not given.

Title : Ash Determination in Resins and Pitches Con-  
taining Little Ash.

Orig Pub: Chem. anal., 1957, 2, No 1, 29 - 34.

Abstract: A method of ash determination in resins and pitches, when its content was less than 0.03%, was developed. That method consists in slow combustion of a weighed sample of the substance to be analyzed (about 0.5 g) in a quartz tube in an O<sub>2</sub> flow; the tube is gradually heated to 800° in an electric furnace. The duration of the analysis is about 6 hours.

Card 1/1

70

LESNIAK, K.

LESNIAK, K. Review of methods of computation and designing of steel structures  
subject to changing loads. p. 411

Vol. 13, no. 11, Nov. 1956  
INZYNIERIA I BUDOWNICTWO  
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Warszawa, Poland

So: East European Accession Vol. 4, No. 3, March 1957

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S.Januszkiewicz i z III Kliniki Chorob Wewnetrznych Sz. A.M.  
Kierownik: prof.dr K.Gibinski.  
(PANCREAS dis)

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K. Spett.  
(SELF-MUTILATION) (MENTAL DISORDERS)

SPETT, Karol, prof. dr; DZIKOWSKI, Henryk; LESNIAK, Roman; SZYMUSIK, Adam

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1. Klinika Psychiatryczna, Akademia Medyczna, Krakow. Kierownik:  
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LESNIAK, S.

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1. Chemical Works, Oswiecim.

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Lesniak, V.F.

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No. 8, 102-0 (1936).—The formation of some north Caucasus  
granitoid rocks appears to originate in a magmatic intrusion,  
rich in volatile components. On cooling, some of the gas  
separates from the liquid phase. The magma, rich in ore  
minerals, cools, forming quartz porphyritic biotite granite  
with numerous gas and liquid inclusions. Some characteris-  
tic minerals are apatite, biotite, and hematite. Skarn  
formation in the area is characterized by the presence of  
granite-aplite including the minerals pyroxene, apatite, and  
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Polish Technical Abst.  
No. 4, 1953  
Transport

2191 741.15 639.119.1  
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Space for Motor Vehicles.

Attached is an article by Lesnias, W. published in "Przeglad Gospodarczy", Warsaw, No. 3, 1953, pp. 77-80.

The article deals with the inadequacy of the present methods of urban construction and development for the existing conditions of traffic, and advises such town planning and architectural methods which would solve the general problems of motor traffic in cities.

LETTUCE, H.

RECORDED AND INDEXED IN THE COLD WAR  
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CC: U.S. DEPT. OF DEFENSE, WASH. D.C., 1953, 1953

LEONIACK, W.

"Out-of-date Tires Reduce Achievements in the Construction of Automobiles."  
p. 309, (MOTORYZACJA, Vol. 2, No. 11, Nov. 1953. Warszawa, Poland.)

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"Użycie Gąsienic", Technika Motoryzacyjna, No. 10, 1953, pp. 291-295,  
8 figs.

The author reviews design, advantages and shortcomings of typical  
seals for bushings carrying rotating cylindrical machine elements. Com-  
parison of physico-chemical properties of leather and synthetic rubber  
flange gaskets. Factors which make it difficult to maintain a tight seal  
and which accelerate gasket wear (in particular eccentricity and plane-  
tary motion of journals).

gP  
334

LESZEK, W.

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SO: Monthly List of East European Accessions, (EEAI), IC, Vol. 3, No. 12, Dec. 1954, Uncl.

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CIA-RDP86-00513R000929410010-5

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DALLAS, TEXAS, U.S.A., (1970)  
U.S.A., INC., DALLAS, TEXAS,  
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APPROVED FOR RELEASE: 07/12/2001

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LESNIAK, W.

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Vol. 5, No. 3, Mar. 1955)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

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16/119

621.643.4

Metal Comb-Washers

Przegl.Mech.

14(5), 152-155

May, 1955

Poland

W. Lesniak  
A need for improvements in the construction of complex joints, resistant to pressure and changes in temperature, can be met by the use of metal comb-washers. Special features of durotherm washers made of steel alloys, which can be used even after several dismantlings of the joints, are described and illustrated. The designing of joints by this method and their installation, present certain problems, but these are easily overcome in practice.

Ng

N

ZIOBRSKI, Jerzy, dr inz., INMIEK, Warsaw, Poland

Composition of fuel oil from raw apple cider. From ferment 1  
no. 8 no. 2:63-64 F 165.

1. School of Economics, Zielona Gora

GOLINSKI, Jan, mgr inż.; LESNIAK, Zdzisław, dr inż.; WINKOWSKI, Józef, mgr

Use of digital computers in static calculations. Inz i bud 20  
no.2:69-72 F '63.

LAWRENCE, W.

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LEONIAK, Z.

"Computation and designing of the slab vaults curved in two dimensions." p. 34  
(INZYNIERIA I RUDOWNICZA, Vol. 2, no. 11, Nov. 1952 Warsaw, Poland)

SO: Monthly List of East European Accessions, Vol. 2, #2, Library of Congress  
August, 1953, Unclassified.

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3425

621.791.052 : 624.21 : 025.1 : 621.014

Lesniak, Z. Welded Constructions Subjected to Varying Loads. Przedsięw-

wierstwo "Zakłady spawane poddane obciążeniom zmieniającym". Przedsięw-

wierstwo "Zakłady spawane poddane obciążeniom zmieniającym". Przedsięw-

Spawalnictwa. No. 1, 1954, pp. 11-19, 13 figs., 2 tabs.

The author has compiled a draft of standard affecting the de-  
signing and construction of welded railway bridges. The draft con-  
sists of six points, which cover 1) the gist of the provisions, the range  
of their applicability; coupled standards and provisions; 2) require-  
ments to be complied with by designers and contractors of welded railway  
bridges, and the welding materials to be used; 3) general outline of  
and detailed principles for designing welded railway bridges; 4) safe  
stress in welds, and the method of making static computations; 5) ma-  
nufacture of welded railway bridges; 6) inspection and acceptance test.

J.W.

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CIA-RDP86-00513R000929410010-5"

LEONARD, A.

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1956, Sept. 1956. 5 vols. 22 cm. (International law library)

SOURCE: Fast European Accessions List (FEAL) LC VOL. 5, No. 6 , June 1956

"APPROVED FOR RELEASE: 07/12/2001

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CIA-RDP86-00513R000929410010-5"

LESNIAK, Z.

Electric welding in the service of heavy industry. p. 133

Some conclusions arrived at in testing welded constructions. p. 144  
PRZEGŁAD SPAWALNICTWA (Stowarzyszenie Inżynierów i Techników Mechaników  
Polskich Instytut Spawalnictwa) Warszawa. Vol. 7, no. 6, June 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress.  
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P. 157, Przeglad Spawalnictwa, Vol. 3, no. 7, July 1956, Warszawa, Poland)

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February 1958

LESNIAK, Z.

A welding conference relating to light building, construction, and strength,  
held in the German Democratic Republic, April 19-21, 1956. (To be contd.)  
p. 217.  
(PRZEGLAD SPAWALNICTWA. Vol. 8, no. 9, Sept. 1956, Warszawa, Poland)

SC: Monthly List of East European Accessions (EHAL) LC. Vol. 6, No. 12, Dec. 1957.  
Uncl.

LESNIAK, Z.

LESNIAK, Z. Some problems of designing welded structures with large arches subject to variable loads. p. 325

Vol. 8, no. 9, Sept. 1956

PRZEGLAD KOLEJOWY

TECHNOLOGY

Warszawa, Poland

So: East European Accession, Vol. 6, no. 2, 1957

LFSNIAK, Z.

A welding conference relating to light building, construction, and strength held in  
the German Democratic Republic, April 19-21, 1956. (Conclusion) p.253  
(PRZEGLAD SPAŁALNICZA, Vol. 8, No. 12, Oct. 1956, Warsaw, Poland)

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Mar. 1959.

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S/137/62/000/001/099/237  
A052/A101

AUTHOR: Lesniak, Z. K., -

TITLE: Fatigue strength of joints of welded structures

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 17, abstract 1E92  
("Wytrzymalosc zmoczeniowa tworzyw i elementow metalowych",  
Warszawa, Dyskus., 119, 1961, 102-106, Polish)

TEXT: Models of bridge truss joints were tested on a 60-ton pulsator at the frequency of 500 cycles per minute. The models were made of St 37 steel. For the solid samples killed steel with  $\sigma_s = 24.3 \text{ kg/mm}^2$  and for the welded ones open steel with  $\sigma_s = 26.5 \text{ kg/mm}^2$  was used. The stresses were determined for the live section, the experimental results were processed by the statistical method.  $\sigma_w$  was determined on the  $2 \cdot 10^6$  cycle basis. The stress concentration coefficient and the form coefficient were also calculated. The schemes of models of welded joints of various designs (10 types), the results of comparative investigations of fatigue strength are given in the form of Wöhler diagram and tables. It is established that the solid samples have  $\sigma_w = 22.5 \text{ kg/mm}^2$  and the welded ones, depending on the design, have  $\sigma_w$  up to  $8.8 \text{ kg/mm}^2$ . Corner plates

Card 1/2

Fatigue strength of joints of welded structures

S/137/62/000/001/099/237  
A052/A101

welded or riveted to the stretched booms of truss are not advantageous since they reduce the fatigue strength. It is recommended to mount corner plates at spots with an increased cross-section, for instance at the main sheets with low rated stresses.

A. Korovin

[Abstracter's note: Complete translation]

Card 2/2

GOLINSKI, Jan; JANOWSKI, Janusz; LESNIAK, Wdzislaw K.; SALWICKI,  
Andrzej; WINKOWSKI, Jozef

Digital computer program for structural analysis of a  
statically indeterminate bridge. Archiw insz lad 9 no. 4:  
419-445 '63.

1. Instytut Maszyn Matematycznych, Polska Akademia Nauk,  
Warszawa (for Golinski, Janowski, Salwicki, Winkowski).
2. Centralny Osrodek Badania i Rozwoju Techniki Kolejnictwa,  
Warszawa (for Lesniak).

**LESNIAK, Z.**

"Catalog for the selection of steel quality groups for  
welded steel constructions" and "Directions concerning  
weldings on axes of trailers to automobiles." Reviewed by  
Z. Lesniak. Przegl spaw 15 no.9:202 S '63.

LESNIAK, Zdzislaw K., dr inz.

Fatigue cracks in a welded railroad bridge. Przegl spraw  
16 no. 2: 38-39 F '64.

1. Centralny Ośrodek Badań i Rozwoju Kolejnictwa, Warszawa.

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929410010-5

JANOWSKI, Janusz, mgr; LESNIAK, Zdzislaw, dr inz.; SALWICKI,  
Andrzej, mgr (Warsaw)

Calculations of a multibay truss bridge by using the electron  
digital computer. Inz i bud 21 no.4:129-133 Ap '64.

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929410010-5"

LESNICAR, Janko

Diphtheritic croup with special reference to its management;  
intubation or tracheotomy. Zdrav. vest., Ljubljana 23 no.11-  
12:293-302 1954.

1. Infekcijski oddelek splošne Bolnice, Celje-sef dr.

Janko Lesnicar.

(DIPHTHERIA,  
laryngal, surg., intubation & tracheotomy, comparison  
(Slow))

(TRACHEA, surg.  
tracheotomy in laryngeal diphtheria, comparison with  
intubation (Slow))

BEDINA, J., M. PAVELČIČ, A.; BEVŠČEK-BEŠČEK, J.; BERN, J.;  
BREZOVŠEK, J.; ČERČEK, M.; ČERNÝ, F.; ČORČEK, D.; ČRO, B.  
ČUDIČ, J.; ČURAK, M.; ČURAK, M.; ČURAK, M.

Epidemiological, clinical and laboratory data of tick-borne  
meningoencephalitis in Slovenia in 1960-1963. Zdrav. vestn.  
33 no.10:474-253 '64.

I. Kmet SPS za zdravstveno varstvo, virusni laboratorijski  
člani (predstojnik: doc. dr. Saša Cvahtel); Infekcijska  
klinika medicinske fakultete v Ljubljani (Predstojnik: prof.  
dr. M. Bedenac).

LESNICAR, Janko

Clinical and serological comparison in 17 cases of tick-borne encephalitis in 1963. Zdrav. vestn. SR SRSSR 1964, 13: 101-109.

Essential aliquorchesis. Ibid. p 105-106.

1. Infekcijski oddelek bolnišnice v Celju (predstavlja oddelek doc. dr. Janko Lesnicar).

LESNICAR, Janko

Clinical aspects, epidemiology, and etiology of endemic meningo-  
encephalitis in Slovenia. Zdrav.vest., Ljubljana 24 no.3:66-72  
1955.

1. Infekcijski oddelok bolnišnice v Celju. - Sef oddelka Dr Janko  
Lesnicar.  
(MENINGOENCEPHALITIS, epidemiology,  
in Yugosl., endemicity)

LESNICAR, Janko

Therapeutic and prophylactic measures of general practitioner  
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24 no.7-8:250-256 1955.

1. Infekcijski oddelok bolnišnice v Celju-sef oddelka dr.  
Janko Lesnicar.

(POLIOMYELITIS, epidemiol.  
prev., prophylaxis of disposition & paralyses,  
results (Sl))

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929410010-5

RADOVANOVIC, M.; LESNICKO, Olga

The head skeleton of neosteinic tritons. Glas prir mat SANU no.253:  
25-42 '63.

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929410010-5"

RADOVANOVIC, M.; LEONICHENKO, Olga

The head skeleton of nocturnal repts. Bul so nat CANU 32 no. 2:25-  
30 '63.

1. Submitted March 31, 1961.

LESNICHENKO, E. V.

✓ Starch formation in *Solanum demissum* under the climatic conditions prevailing in the region of Stavropol. E. V. Lesnichenko and N. A. Solov'eva. *Sbornik Nauch.-Tekhnicheskikh Rabot Student. Stavropol. Sel'skokhoz. Inst.* No. 3, 103-6(1953); *Referat. Zhur. Khim., Biol. Khim.* 1955, No. 9128.—Under the climatic conditions of Stavropol there is formed in the leaves and stems, fruits and underground stolons a secondary starch. Tubers are not formed, due, it is assumed, to the activity of certain enzymes. By pinching off the flowers as soon as they appear and thus preventing the formation of fruits in which normally 4.5% of starch is formed, the authors claim to have been able to induce the formation of underground tubers. B. S. Levine

MD

①

LEVIN, I.A., kand.tekhn.nauk, red.; BATRAKOV, V.P., kand.tekhn.nauk, red.;  
NIKIFOROVA, V.M., kand.tekhn.nauk, starskiy nauchnyy sotrudnik, red.;  
TURKOVSKAYA, A.V., kand.tekhn.nauk, red.; LESNICHENKO, I.I., inzh.,  
red.izd-va; EL'KIND, V.D., tekhn.red.

[Intergranular corrosion and stress corrosion of metals] Mezh-kristallitnsia korroziia i korroziia metallov v napriazhennom sostoianii. Pod obshchei red. I.A.Levina. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 358 p. (MIRA 13:6)

1. Vsesoyuznyy sovet nauchno-tekhnicheskikh obshchestv.  
(Corrosion and anticorrosives)  
(Metal crystals--Corrosion)